

Amendments to the Claims

The following Listing of Claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (currently amended): A method for performing open fiber control for at least one optical transceiver in an optical network, comprising:

transmitting output signals on respective output channels ~~more than one channel~~;

detecting a loss of signal;

in response to a successful detection of the loss of signal, maintaining the transmitting of an output signal on a designated one of the output channels while disabling the transmitting of output signals ~~disabling transmissions on all but the designated one of the output channels~~ ~~one channel~~; and

detecting the reappearance of a signal;

in response to a failure to detect the loss of signal, re-enabling the transmission of the output signals whose transmission ~~enabling all channels that~~ had previously been disabled.

Claim 2 (currently amended): The method of claim 1, wherein the maintaining step comprises transmitting the output signal on the designated output channel ~~of disabling transmissions leaves one channel transmitting~~ at a predetermined power level up to a specified maximum eye-safe power level.

Claim 3 (currently amended): The method of claim 2, wherein the output signals are transmitted on the respective output channels at step of transmitting ~~has~~ a total power above the predetermined power level.

Claim 4 (original): The method of claim 3, wherein the step of transmitting uses multichannel parallel transmission.

Claim 5 (original): The method of claim 4, wherein the step of transmitting has a data rate greater than 1 Gbps.

Claim 6 (original): The method of claim 5, wherein the step of transmitting has a data rate greater than 10 Gbps.

Claim 7 (original): The method of claim 3, wherein the step of transmitting uses wavelength division multiplexing.

Claim 8 (original): The method of claim 7, wherein the step of transmitting has a data rate greater than 1 Gbps.

Claim 9 (original): The method of claim 8, wherein the step of transmitting has a data rate greater than 10 Gbps.

Claim 10 (currently amended): An optical transceiver for performing open fiber control, comprising:

a transmitter that transmits output signals on respective output channels ~~more than one channel;~~

a receiver that detects a loss of signal; and

a control logic block coupled to the transmitter and the receiver and configured to ;
~~such that~~

direct the transmitter to maintain transmission of an output signal on a designated one of the output channels while disabling transmission of output signals on all but the designated one of the output channels in response to a successful detection of the loss of signal by the receiver, and

direct the transmitter to re-enable transmission of the output signals whose transmission had previously been disabled in response to a failure of the receiver to detect the loss of signal

~~when the receiver does not detect a signal, the control logic block disables all but one remaining channel from the transmitter;~~

~~when the receiver detects a signal, the control logic block enables all channels of the transmitter.~~

Claim 11 (currently amended): The optical transceiver as in claim 10, wherein, in response to a successful detection of the loss of signal by the receiver, the controller directs the transmitter to transmit the output signal on the designated output ~~one remaining~~ channel is ~~transmitted~~ at a predetermined power level up to a specified maximum eye-safe power level.

Claim 12 (currently amended): The optical transceiver as in claim 11, wherein the transmitter transmits the output signals on the respective output channels at a total power level above the ~~[[a]] predetermined power level during normal operation~~.

Claim 13 (original): The optical transceiver as in claim 12, wherein the transmitter uses multichannel parallel transmission.

Claim 14 (original): The optical transceiver as in claim 13, wherein the transmitter transmits at a data rate greater than 1 Gbps.

Claim 15 (original): The optical transceiver as in claim 14, wherein the transmitter transmits at a data rate greater than 10 Gbps.

Claim 16 (original): The optical transceiver as in claim 12, wherein the transmitter uses wavelength division multiplexing.

Claim 17 (original): The optical transceiver as in claim 16, wherein the transmitter transmits at a data rate greater than 1 Gbps.

Claim 18 (original): The optical transceiver as in claim 17, wherein the transmitter transmits at a data rate greater than 10 Gbps.

Claim 19 (new): The method of claim 1, wherein the transmitting of each of the output signals is at or above a specified maximum eye-safe power level.

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Page : 5 of 9

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Claim 20 (new): The optical transceiver of claim 10, wherein the transmitter transmits each of the output signals at or above a specified maximum eye-safe power level.